3RA2120-1GA24-0AK6

Data sheet



FUSELESS LOAD FEEDER DIRECT START, AC 400V, SZ. S0, 4.5...6.3A, AC 110/120V 50/60HZ SCREW TERMINAL FOR RAIL MOUNTING, TYPE OF ASSIGNMENT 2,IQ = 150KA (ALSO FULFILLS TYPE OF ASSIGNMENT 1) 1NO+1NC (CONTACTOR)

product brand name	SIRIUS	
product designation	non-fused load feeders 3RA2	
design of the product	direct starter	
manufacturer's article number		
 of the supplied contactor 	3RT2024-1AK60	
 of the supplied circuit-breakers 	3RV2021-1GA10	
 of the supplied link module 	3RA2921-1AA00	
General technical data		
size of the circuit-breaker	S0	
size of load feeder	S0	
product extension auxiliary switch	Yes	
insulation voltage with degree of pollution 3 at AC rated value	690 V	
degree of pollution	3	
surge voltage resistance rated value	6 kV	
shock resistance according to IEC 60068-2-27	6g / 11 ms	
mechanical service life (operating cycles) of contactor typical	10 000 000	
type of assignment	2	
Substance Prohibitance (Date)	10/01/2009	
Ambient conditions		
ambient temperature		
during operation	-20 +60 °C	
during storage	-50 +80 °C	
during transport	-50 +80 °C	
Main circuit		
number of poles for main current circuit	3	
design of the switching contact	electromechanical	
adjustable current response value current of the current- dependent overload release	4.5 6.3 A	
operating voltage		
rated value	690 V	
at AC-3 rated value maximum	690 V	
operating frequency rated value	50 60 Hz	
operational current at AC-3 at 400 V rated value	5 A	
operating power at AC-3		
• at 400 V rated value	2 200 W	
at 500 V rated value	3 000 W	
at 690 V rated value	4 000 W	
Control circuit/ Control		
control supply voltage at AC		
• at 50 Hz rated value	110 V	

apparent holding power of magnet coil at AC Protective and monitoring functions trip class design of the overload release response value current of instantaneous short-circuit trip unit. ULICSA ratings full-load current (FLA) for 3-phase AC motor at 48 60 V rated value at 600 V rated value at 600 V rated value at 230 V rated value if or 3-phase AC motor at 101/120 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor at 220/20 V rated value if or 3-phase AC motor yes design of the short-circuit current (to) at 690 V according to EC 60947-4-1 rated value if of 000 AC at 600 V according to EC 60947-4-1 rated value installation/mounting/dimensions wounting position fastening method at 600 V according to EC 60947-4-1 rated value if or grounded parts for grounded parts	at 60 Hz rated value	120 V
Productive and monitoring functions rip class design of the overload release response value current of instantaneous short-circuit trip unit UUSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 800 V rated value • for 3-phase AC motor — at 101/120 V rated value • for 3-phase AC motor — at 200/230 V rated value • for 3-phase AC motor — at 200/230 V rated value • at 200/230 V rated value • at 200/230 V rated value • at 400/480 V rated value • at 400 V according to IEC 60407-41 rated value • at 400 V according to IEC 60407-41 rated value • at 400 V according to IEC 60407-41 rated value • at 400 V according to IEC 60407-41 rated value • at 400 V according to IEC 60407-41 rated value • at 400 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 500 V according to IEC 60407-41 rated value • at 600 V according to IEC 60407-41 rated value • at 600 V according to IEC 60407-41 rated value • at 600 V according to IEC 60407-41 rated value • at 600 V according to IEC 60407-41 rated value • at 600 V according to IEC 60407-41 rated value • at 600 V according to IEC 60407-41 rated value • at 600 V according to IEC 60407-41 rated value • at 600 V according to IEC 60407-41 rated value • at 600 V according to IEC 60407-41 rat		
trip class design of the overload release design of the overload release temporare value current of instantaneous short-circuit trip unit ULUSA ratings In Ill Cand current (FLA) for 3-phase AC motor at 480 V rated value at 480 V rated value at 480 V rated value (6.3 A yiolidod mechanical performance (hp) of or single-phase AC motor — at 101/20 V rated value — of 230 V rated value — of 230 V rated value — at 200208 V rated value — at 575/800 V rated value — at 575/800 V rated value — at 369 V according to IEC 60047-41 rated value design of the short-circuit current (ft) at 480 V according to IEC 60047-41 rated value at 480 V according to IEC 60047-41 rated value at 480 V according to IEC 60047-41 rated value at 480 V according to IEC 60047-41 rated value at 480 V according to IEC 60047-41 rated value at 480 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value but 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value but 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value but 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value but 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value at 580 V according to IEC 60047-41 rated value but 580 V according to IEC 60047-41 rated value at 680 V according to IEC 60047-41 rated value at 680 V according to IEC 60047-41 r		
response value current of instantaneous short-circuit trip unit ULICSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 480 V rated value • at 480 V rated value — at 101/120 V rated value — at 230 V rated value — at 230 V rated value — at 220 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 260/480 V rated value — at 260/480 V rated value — at 260/480 V rated value — at 275/600 V rated value — at 575/600 V rated value — at 690/480 V rated value — at 690/480 V rated value — backy at 690 V according to EC 60947-4-1 rated value • at 400 V according to EC 60947-4-1 rated value • at 400 V according to EC 60947-4-1 rated value • at 400 V according to EC 60947-4-1 rated value • at 50		CLASS 10
### Table ### Ta	design of the overload release	thermal (bimetallic)
full-load current (FLA) for 3-phase AC motor • at 460 V rated value • at 110/120 V rated value — at 230 V rated value — at 230 V rated value — at 220 V rated value — at 200/208 V rated value — at 200/208 V rated value — at 400/40 V rated value — baby a value product function short circuit protection gesplane of the short-circuit current (q) • at 600 V according to IEC 60047-4-1 rated value • at 400 V according to IEC 60047-4-1 rated value • at 400 V according to IEC 60047-4-1 rated value • at 500 V according to IEC 60047-4-1 rated value •	response value current of instantaneous short-circuit trip unit	81.9 A
at 480 V rated value sit 500 V rated value sit 500 V rated value sit 500 V rated value at 500 V rated value at 500 V rated value at 230 V rated value at 230 V rated value out 50 ship for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 250/200 V rated value at 500 V rated value be at 500 V rated value at 500 V rated value at 500 V rated value at 680 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value be at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value be at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value be at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according t	JL/CSA ratings	
### at 600 V rated value violed mechanical performance [hp]	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance (hp) • for single-phase AC motor — at 1101/20 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 4575/800 V rated value — at 575/800 V rated value — at 575/800 V rated value — best of the short-circuit protection — cedigin of the short-circuit protection product function short circuit protection design of the short-circuit current (lq) — at 400 V according to IEC 60947-4-1 rated value — at 400 V according to IEC 60947-4-1 rated value — at 400 V according to IEC 60947-4-1 rated value — at 500 V according to IEC 60947-4-1 rated value — at 500 V according to IEC 60947-4-1 rated value	at 480 V rated value	4.8 A
• for single-phase AC motor — at 1101/20 V rated value • tor 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/330 V rated value — at 270/300 V rated value — at 576/000 V rated value — at 576/000 V rated value — at 576/000 V rated value — by post of the short-circuit protection Product function short-circuit trip — magnetic conditional short-circuit current (lq) • at 680 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 680 V according to IEC 60947-4-1 rated value • at 680 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 680 V according to IEC 60947-4-1 rated value • a	at 600 V rated value	6.3 A
- at 110/120 V rated value	yielded mechanical performance [hp]	
• for 3-phase AC motor • at 200/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • 5 hp Short-circuit protection product function short circuit protection dosign of the short-circuit trip conditional short-circuit current (lq) • at 690 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value fastening method screw and snap-on mounting onto 35 mm DIN rall height • for grounded parts • for grounded parts • for grounded parts • forwards • upwards • at the side • downwards • for live parts • forwards • for live parts • forwards	 for single-phase AC motor 	
• for 3-phase AC motor — at 200/209 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 475/500 V rated value — at 575/500 V rated value — 5 hp Short-circuit protection product function short circuit protection dosign of the short-circuit trip conditional short-circuit trip at 4809 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V according to IEC 60947-4-1 rated value • at 600 V accord	— at 110/120 V rated value	0.25 hp
- at 200/208 V rated value 1.5 hp 1.5 hp 3 hp 4.6 value 200/230 V rated value 1.5 hp 3 hp - at 480/480 V rated value 5 hp 5.5 hp	— at 230 V rated value	0.5 hp
- at 220/230 V rated value	• for 3-phase AC motor	
- at 460/480 V rated value 5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic conditional short-circuit current (tq) • at 890 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value **Total V according to IEC 60947-4-1 rated value **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A **Total V according to IEC 60947-4-1 rated value 100 000 A 100 000	— at 200/208 V rated value	1 hp
- at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic conditional short-circuit current (tq) • at 690 V according to IEC 60947-4-1 rated value • at 1400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value installation mounting dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height 193.1 mm width 45 mm depth 97.1 mm required spacing • for grounded parts - forwards 10 mm - backwards 0 mm - at the side 9 mm - downwards 10 mm - downwards 10 mm - backwards 0 mm - downwards 10 mm - backwards 0 mm - downwards 10 mm - backwards 0 mm - puwards 30 mm - downwards 10 mm - backwards 0 mm - puwards 30 mm - downwards 10 mm - backwards 0 mm - puwards 30 mm - downwards 10 mm - backwards 11 mm - at the side 9 mm - downwards 11 mm - at the side 9 mm - downwards 11 mm - at the side 9 mm - downwards 10 mm - backwards 10 mm - backward	— at 220/230 V rated value	1.5 hp
Short-circuit protection Yes	— at 460/480 V rated value	3 hp
product function short circuit protection design of the short-circuit trip conditional short-circuit trup at 890 V according to IEC 60947-4-1 rated value at 400 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value to 0000 A Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height vertical fastening method screw and snap-on mounting onto 35 mm DIN rail height 45 mm depth 97.1 mm required spacing of or grounded parts - forwards - upwards - at the side 9 mm 10 mm odwnwards of rive parts - forwards - lorive parts - forwards - upwards - backwards 0 mm 30 mm 0 mm - backwards 0 mm 10 mm - backwards 0 mm - upwards - upwards - downwards 10 mm - backwards 0 mm 10 mm - backwards - upwards - downwards 10 mm - backwards - upwards - downwards 10 mm - the side 9 mm Connections/ Terminals type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-sections for main contacts stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous fallures with high demand rate 73 %		5 hp
design of the short-circuit trip conditional short-circuit current (lq) • at 690 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height 193.1 mm width 45 mm depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — downwards • for live parts — forwards — upwards — at the side — downwards — to mm • for live parts — forwards — upwards — backwards — upwards — at the side — downwards — to mm • for live parts — forwards — upwards — backwards — upwards — at the side — downwards — to mm • for live parts — forwards — upwards — to mm • of or live parts — forwards — to mm • to mm • to mm • to mm • to fill the parts — forwards — upwards — at the side — downwards — upwards — otherwards — upwards — otherwards — otherwar	Short-circuit protection	
conditional short-circuit current (tq) • at 890 V according to IEC 60947-4-1 rated value • at 400 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value • at 500 V according to IEC 60947-4-1 rated value installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height ### depth ### depth ### 193.1 mm ### required spacing • for grounded parts ### - forwards ### - forwards ### - man - downwards ### - at the side ### - downwards ### - forwards ### of mile parts ### - forwards ### of mile parts ### of	product function short circuit protection	Yes
at 690 V according to IEC 60947-4-1 rated value at 400 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value to 0000 A stabliation/ mounting/ dimensions mounting position fastening method height vidth depth 97.1 mm required spacing of for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — to wards — to wards — backwards — o mm of for live parts — forwards — to make a for live parts — forwards — backwards — at the side — downwards — to mm of or live parts — forwards — to mm of or live parts — forwards — to mm of live parts — forwards — to mm of or live parts — forwards — to mm of live parts — forwards — at the side — backwards — at the side — backwards — o mm of live parts — forwards — to mm of live parts of live	design of the short-circuit trip	magnetic
at 400 V according to IEC 60947-4-1 rated value at 500 V according to IEC 60947-4-1 rated value installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height yertical fastening method 45 mm depth 97.1 mm required spacing for grounded parts forwards packwards puwards at the side downwards for live parts forwards downwards for live parts downwards	conditional short-circuit current (Iq)	
at 500 V according to IEC 60947-4-1 rated value Installation/ mounting/ dimensions mounting position fastening method height vidth 45 mm depth required spacing for grounded parts - forwards - upwards - at the side - downwards for live parts - forwards - upwards - backwards 0 mm for live parts - forwards - upwards - at the side - downwards - upwards - backwards 0 mm of or live parts - forwards - upwards - at the side - downwards - upwards - backwards 0 mm of or live parts - forwards - upwards - at the side - downwards - upwards - at the side -	-	4 000 A
mounting position fasterning method screw and snap-on mounting onto 35 mm DIN rail height 193.1 mm width 45 mm depth 97.1 mm required spacing • for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — backwards — to mm • of or live parts — forwards — at the side — downwards — at the side — backwards — on mm • or or live parts — forwards — at the side — backwards — at the side — converting • for live parts — forwards — upwards — at the side — upwards — at the side — on mm Connections/ Torminals type of connectable conductor cross-section for main contacts stranded connectable conductor cross-section for main contacts stranded with core end processing Safety related data B10 value with high demand rate 73 %	-	
mounting position fastening method height 193.1 mm width 45 mm depth 97.1 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — o mm — downwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — at the side — downwards — upwards — backwards — upwards — upwards — at the side — downwards — upwards — o mm Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-sections for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 193.1 mm 193.1 mm 193.1 mm 193.1 mm 193.1 mm 193.1 mm 195.1 mm 193.1 mm 193	-	100 000 A
fastening method screw and snap-on mounting onto 35 mm DIN rail height 193.1 mm width 45 mm depth 97.1 mm required spacing • for grounded parts — forwards 10 mm — backwards 30 mm — at the side 9 mm — downwards 10 mm • for live parts — forwards 10 mm • for live parts — converds 9 mm Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %	nstallation/ mounting/ dimensions	
height 193.1 mm width 45 mm depth 97.1 mm required spacing 97.1 mm • for grounded parts 0 mm — backwards 0 mm — upwards 30 mm — at the side 9 mm — downwards 10 mm • for live parts 0 mm — backwards 0 mm — upwards 30 mm — downwards 10 mm — at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections for main contacts stranded 1 10 mm², 2x (2.5 6 mm²) connectable conductor cross-section for main contacts finely stranded with core end processing 1 6 mm² Safety related data 810 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %		vertical
width 45 mm depth 97.1 mm required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards 10 mm • for live parts — forwards — backwards — upwards — at the side — downwards 10 mm • for live parts — forwards — backwards — upwards — backwards — upwards — at the side — 9 mm Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 1 un 0 mm²	fastening method	·
depth required spacing		
required spacing • for grounded parts — forwards — backwards — upwards — upwards — at the side — downwards • for live parts — forwards — backwards • of mm — downwards • for live parts — forwards — backwards — upwards — upwards — upwards — upwards — at the side 9 mm 0 mm 9 mm Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 10 mm 9 mm 10 mm 1		
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- forwards 10 mm - backwards 0 mm - upwards 30 mm - at the side 9 mm - downwards 10 mm • for live parts - forwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 10 mm - backwards 10 mm - backwards 10 mm - at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures with high demand rate 73 %		
— backwards — upwards — at the side — downwards — for live parts — forwards — backwards — backwards — upwards — upwards — upwards — upwards — at the side — of mm — at the side — of mm — upwards — upwards — at the side — of mm		40
- upwards - at the side - downwards 10 mm • for live parts - forwards - backwards - upwards - upwards - downwards - at the side 7 mm Connections/ Terminals type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %		
— at the side — downwards • for live parts — forwards — backwards — upwards — upwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 10 mm 9 mm 10 mm 9 mm 2crew-type terminals 1 10 mm², 2x (2.5 6 mm²) 1 6 mm² 1 6 mm²		
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• for live parts — forwards — backwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 10 mm 9 mm cerew-type terminals 1 10 mm², 2x (2.5 6 mm²) 1 6 mm²		
- forwards - backwards 0 mm - upwards 30 mm - downwards - at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %		10 mm
- backwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %	·	10 mm
- upwards - downwards - at the side Connections/ Terminals type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %		
- downwards - at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit stranded connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %		
— at the side 9 mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %	·	
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connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate 73 %	type of connectable conductor cross-sections for main contacts	
Safety related data B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures with high demand rate 73 %	connectable conductor cross-section for main contacts finely	1 6 mm²
proportion of dangerous failures with high demand rate 73 %		
proportion of dangerous failures with high demand rate 73 %	B10 value with high demand rate according to SN 31920	1 000 000
	proportion of dangerous failures with high demand rate	73 %
protection class IP on the front according to IEC 60529 IP20	protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals		
General Product Approval For use in hazard- ous locations Declaration of Conformity	General Product Approval	Declaration of Conformity











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certific-









Marine / Shipping

other Railway







Confirmation

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2120-1GA24-0AK6

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2120-1GA24-0AK6}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1GA24-0Al

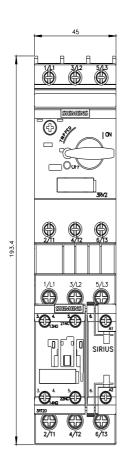
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

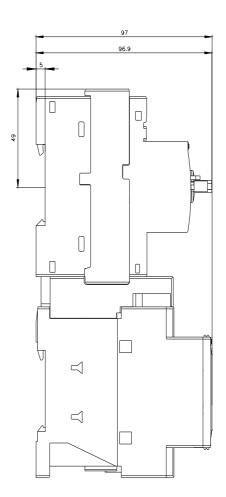
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2120-1GA24-0AK6&lang=en

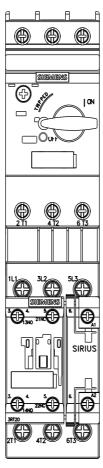
Characteristic: Tripping characteristics, I2t, Let-through current

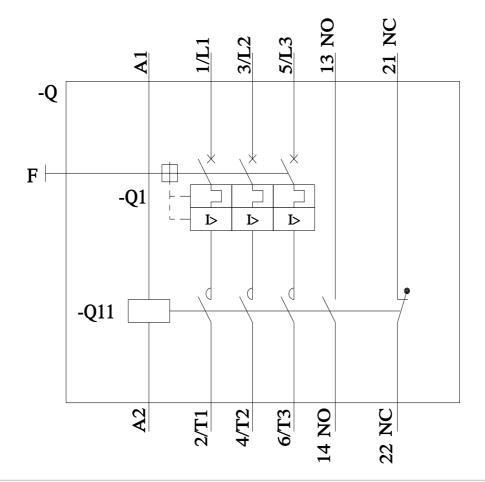
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1GA24-0AK6/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1GA24-0AK6&objecttype=14&gridview=view1









last modified: 11/21/2022 🖸